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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/848,701	05/02/2001	Joseph Zelina	H0001340	7935	
759	90 05/21/2002				
Honeywell International, Inc.			EXAMINER		
Law Dept. AB2 P.O. Box 2245			KOCZO JR, MICHAEL		
Morristown, NJ	07962-9806		ART UNIT PAPER NUMBE		
			3746	.,	
			DATE MAILED: 05/21/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

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-	Applicati n N .	Applicant(s)	
	09/848,701	ZELINA, JOSEPH	,
Office Action Summary	Examiner	Art Unit	
	Michael Koczo, Jr.	3746	
The MAILING DATE of this communication app Period f r Reply	ears on the cover sheet v	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a within the statutory minimum of the will apply and will expire SIX (6) MO, cause the application to become A	reply be timely filed rly (30) days will be considered timely. NTHS from the mailing date of this communicati BANDONED (35 U.S.C. § 133).	on.
1) Responsive to communication(s) filed on	<u> </u>		
2a) ☐ This action is FINAL . 2b) ☑ Th	is action is non-final.		•
3) Since this application is in condition for allows closed in accordance with the practice under			is
Disposition of Claims 4) Claim(s) 1-14 is/are pending in the application			
4a) Of the above claim(s) is/are withdray			
5) Claim(s) is/are allowed.	m nom consideration.		
6)⊠ Claim(s) <u>1-14</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) 1-14 are subject to restriction and/or e	election requirement.		
Application Papers	,		
9)☐ The specification is objected to by the Examine	г.		
10) The drawing(s) filed on is/are: a) accep	ted or b) objected to by	the Examiner.	
Applicant may not request that any objection to the	· · · · · · · · · · · · · · · · · · ·	• •	
11)☐ The proposed drawing correction filed on	, , , , , , , , , , , , , , , , , , , ,	disapproved by the Examiner.	
If approved, corrected drawings are required in rep	•		
12) The oath or declaration is objected to by the Exa	aminer.		
Priority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:	•		
1. Certified copies of the priority documents			
2. Certified copies of the priority documents			
 3. Copies of the certified copies of the prior application from the International Bur * See the attached detailed Office action for a list of the prior application. 	reau (PCT Rule 17.2(a)).	_	
14) ☐ Acknowledgment is made of a claim for domestic	•		tion).
a) The translation of the foreign language pro-			·
Attachment(s)	, , ,		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2	5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)	

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DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1 to 11, drawn to a gas turbine engine fuel injection system having plural distinct injectors, classified in class 60, subclass 746.
- II. Claims 12 to 14, drawn to a method of injecting fuel into a gas turbine combustion chamber, classified in class 60, subclass 776.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the apparatus as claimed can be used to practice another and materially different process such as expanding and igniting the mixture of pilot circuit fuel and air only during low power operation.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the structure of claim 4 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 4 is rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. There is no detailed description in the specification of the structure as recited in claim 4.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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Claims 1 to 11, 13 and 14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 is so replete with functional and operational language ("whereby" clauses) that the scope thereof cannot be clearly ascertained.

Claims 4 to 11 are purely functional and merely recite desired results or the intended use of the device.

In claim 5, line 2, "a pilot circuit fuel nozzle" is a double inclusion of the pilot circuit fuel nozzle which is recited in claim 1. This can be corrected by changing "a pilot circuit fuel nozzle" to read --said pilot circuit fuel nozzle--.

In claim 6, "main circuit fuel nozzles" is a double inclusion of the main circuit fuel nozzles which are recited in claim 1. This can be corrected by changing "main circuit fuel nozzles" to read --said main circuit fuel nozzles--.

In claim 10, line 2, "can be utilized" is duplicated.

In claims 10 and 11, "aerospace type fuels" and "non-aerospace type fuels", respectively, are vague and indefinite since these expressions do not denote any specific fuels.

Claims 13 and 14 recite desired results without reciting method steps which would cause the desired result to occur. Merely expanding fuel and air does not form a fuel rich, high flame temperature zone in the combustion chamber.

Claims 4, 7 and 9 to 11 are further rejected under 35 U.S.C. 112, fourth paragraph, as failing to further structurally limit a preceding claim.

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Thorough revision of the claims is required in order to render them definite in form according to the statute.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1 to 11, as understood, are rejected under 35 U.S.C. 102(e) as being anticipated by Pritchard et al. Recitations of desired results (claim 1, "whereby" clauses, claims 4 and 7) and intended use (claims 9 to 11) are not patentably limiting.

Claims 1 to 14, as understood, are rejected under 35 U.S.C. 102(b) as being anticipated by Richardson.

Claims 1 to 14, as understood, are rejected under 35 U.S.C. 102(e) as being anticipated by Mongia.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 13 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Richardson in view of Crocker. Crocker discloses a gas turbine fuel combustor wherein the injection forms rich and lean fuel mixture zones for reduced Nox. In view of this teaching, it would have been obvious to form rich and lean fuel mixture zones in the combustor of Richardson.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry relating to the status of this application or proceeding should be directed to the Customer Service Office whose telephone number is 703-306-5648.

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Any inquiry relating to patent applications in general should be directed to the Patent Assistance Center at 1-800-786-9199.

Michael Koczo, Jr.

Primary Examiner

Group Art Unit 3746

M. Koczo, Jr./mnk May 20, 2002 TEL 703-308-2630 M-W 7:30 to 16:00 FAX 703-308-7763